

Abstract

5 The present invention concerns the discovery that proteins encoded by a family of
vertebrate genes, termed here *hedgehog*-related genes, comprise morphogenic signals
produced by embryonic patterning centers, and are involved in the formation of ordered
spatial arrangements of differentiated tissues in vertebrates. The present invention makes
available compositions and methods that can be utilized, for example to generate and/or
maintain an array of different vertebrate tissue both *in vitro* and *in vivo*.

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